



August 16, 2006

Sent via email

Eric Johnson U.S. Environmental Protection Agency Region 8, 8ENF-T 999 18th Street, Suite 300 Denver, Colorado 80202-2466

RE: Progress report for July 2006 activities - Hecla Mining Company Apex Site (EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Mr. Johnson:

Per paragraph 64 of the Order, enclosed is a copy of the July 2006 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at pglader@hecla-mining.com.

Sincerely

Paul L. Glader

Manager Environmental Services

Encl

Cc:

HMC Legal Dept (w/o attachments) John Jacus, Esq. (DG&S)



August 16, 2006

Sent via U.S. Mail

Glenn Rogers, Chairman. Shivwits Band of Paiute Indian Tribe P.O. Box 448 Santa Clara, Utah 84765

John Krause
Bureau of Indian Affairs Phoenix Area Office
U.S. Department of Interior
P.O. Box 10
Phoenix, AZ 85001

Kelly Youngbear BIA Southern Palute Agency P.O. Box 720 St. George, UT 84771

RE: Progress report for July 2006 activities - Hecla Mining Company Apex Site (EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Chairman Rogers, Mr. Krause and Ms. Youngbear:

Per paragraph 64 of the Order, enclosed is a copy of the July 2006 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at polader@hecla-mining.com.

Sincerely,

Paul L. Glader

Manager Environmental Services

Encl

Cc:

HMC Legal Dept. (w/o attachments)
John Jacus, Esq. (DG&S) (w/o attachments)
Eric Johnson (USEPA, Region VIII) (w/o attachments)



MEMORANDUM TO:

Apex File

COPIES TO:

distribution

FROM:

Paul Glader

SUBJECT:

Progress Report No. 27 for period ending July 31, 2006;

Pond 2 Final Closure - Apex Site, Washington County, Utah

Summary

The seventh visual inspection, per the long term monitoring plan, was conducted on August 3rd. No unusual conditions were noted, some salt formation was noted near the toe of the rock-armored out slopes. Further investigation identified the source as recent rainfall contacting the natural mineralization contained in the site-sourced construction material. Some minor erosion maintenance will be scheduled for late summer.

The settlement monuments were surveyed on June 6th and July 10th - no appreciable settlement has been noted. Settlement analysis will now take place on a quarterly basis.

Major Issues

- 1. During the period of post closure long term monitoring, the Hecla representative will be Paul Glader, Manager of Environmental Services. Paul's contact information includes: Work Telephone 208.769.4112, email address pglader@hecla-mining.com.
- 2. Surface Monitor Results To Date Since monitoring of the top surface began (Jan 4, 2006), there has been no appreciable movement in the surface monuments at the Apex site. Significant decreases in elevation could have meant large volume changes within the impoundment due to either (1) consolidation of enclosed materials, or (2) loss of liquid through leaks in the impoundment.

There are ten monuments installed on the top surface. As shown, between installation of the monuments and the July 10, 2006 monitoring period any movements have been slight and can be attributed to surveying accuracy limitations. Surveying of the monuments will now take place on a quarterly basis, starting with September.

Monument	Total Elevation Change Since 1/4/06 (feet)
1	-0.01
2	0.02
3	0.00
4	0.05
5	0.04
6	0.02
7	-0.06
8	0.00
9	-0.01
10	0.02

Work Planned for Next Period

- 1. Visual inspection of site.
- Settlement monument survey will take place quarterly basis September.

Sampling and Analysis in Period

Field Tests, Inspections & QA/QC

1. The seventh site inspection was done on August 3rd; a copy of the inspection report is included in the Supplemental Attachments section.

Cost and Schedule

Committed costs in July 2006 were approximately \$5,329. Total project to date committed is approximately \$1,239,000.

The cost report for July is attached. Current status of the deliverables listed in the RCRA 7003 order is as follows:

Reference Paragraph	Due	Remarks Work completed on March 9, 2004	
57	15 days after effective date of order		
63	45 days after receipt of filing of order	Work started on February 23, 2004	
64	28 th day after close of month	Requirement in effect after order is filed.	
66	30 days after completion of all closure plan tasks	Construction completion report submitted on 3/13/2006. A follow-up report to be issued after end of monitoring period.	
	Paragraph 57 63 64	Paragraph 57 15 days after effective date of order 63 45 days after receipt of filing of order 64 28 th day after close of month 66 30 days after completion of all closure plan	

The update of the schedule milestones is on the following table:

Milestone	Target	Actual	Remarks
Issue bid package - Phase I (Sump Drains)	6/14/04	6/15/04	Portion of RFP materials issued at pre- bid on 6/14/04; remainder sent via courier
Issue RFP package Phase III	6/24/04	6/24/04	
Award contract for Phase I	6/24/04	6/29/04	Date contract was shipped to Hughes
Pre-bld meeting - Phase III	7/19/04	7/19/04	
Start Phase I (Sump Drains) construction	7/12/04	7/19/04	·
Start Phase II (Evaporation)	7/19/04	7/29/04	'
Receive bids for Phase III	8/2/04	8/2/04	
Re-bid Phase III contract package	April 2005	4/27/05	Date bid package was sent to Hughes
Start Phase III construction	End of August 2005	8/29/05	Start of contractor mobilization
Complete Phase III construction	Dec 23rd 2005	12/23/05	Completion of contract scope of work
Issue Construction Completion Report	Week of 3/13/2006	3/13/06	

Supplemental Attachments

- 1. August 3, 2006 long term monitoring inspection report, by D. Truman.
- 2. July Cost Report

Annual Site Inspection Summary Sheet - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 1 of 4 - Summary

Date:	3-06			
Inspector:	172	uman		
Cover System Component	Po	otential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or	r Fencing Issues	NA	NA
	Subsidenc		Minor: ponding < 1" some gullying / erosion	Yes ½0 * No
	Subsiderio		Significant: see Table 2	Yes* No 🏂
	Embankm	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes* No <u>Y</u>
		on top	depth > 1"	Vac + No ¥
Cover System (outslopes, top,	,	at embankment crest or on outslope	depth > 2"	Yes _* No _ X
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes* No _¥
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes* No 💌
		in diversion channel at any other location	NA	NA ·
	Erosion Protection Stability		rock subsiding or missing	Yes * No 🏌
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No 🗡
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes ⊀ * No
Runoff Control System	Diversion S	Swales	rock in place, no silting in or head cutting	Yes ≮ * No
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes* No <u>*</u>

^{*} Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan Form 2 of 4 - Site Perimeter

		Inspection Date:_	8-3-04		
		Inspector:	Trans		
			Visible Outlying Are	as	
Observed Condition:	No	Change			
Observed Damage:	No-			May require repair: Yes	* No 🕶

			oundary Fence and Gate	a (walk fence line)	
Observed Condition:	Ery	Hing Look	Fina		
Observed Damage:		Mone			
Potential Corrective Actions:	N	٧٤_			
				May require repair: Yes	* No 🛣
		All Upgrad	ent Areas (areas that dra	ain onto property)	
Observed Condition:	No		-lost month		
Observed Damage:	Su-	Mina	erosina		
				May require repair: Yes	* No <u>)c</u>

^{*} Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 3 of 4 - Impoundment

18 2	Inspection Date: 8-5-64	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No Y	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No 🛰	May require repair: Yes* No
	Gully Development: (MINUT) Yes X No _	May require repair: Yes* No
	Observable Leachate (colored): Yes No 3814	May require repair: Yes ** No
	Excessive Siltation (at slope toe): Yes No _x	May require repair: Yes* No
Observed Samage:	Some Solf was observed of Sever outslope (4)	al Site around the
	popular to have created areas of salts for	nday 814. Recart vains nations - from national devials. PG-8/866
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No _ <u>Y</u>	May require repair: Yes* No*
	Settlement / Evidence of Ponding: Yes No 🔀	May require repair: Yes* No _x
	Erosion / Gullying: Yes No yo	May require repair: Yes* No _>
Observed Damage:	ひめと	
Potential Corrective Actions:	NP4E	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes 🛌 No	May require repair: Yes* No ⊻
	Rock Subsiding: Yes No **	May require repair: Yes* No ×
,	Missing Rock: Yes No _x_	May require repair: Yes* No ≽_
Observed Damage: 人	5-192	
Potential Corrective A Actions:	John	

" Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan Form 4 of 4 - Diversion Channel and Swales

Date: Inspector:	8-1-06 Truman		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes 📉 No	May require repair: Yes* No ★
,	Normal Flow Channel in place:	Yes 10 No	May require repair: Yes* No *
	Encroaching on Site Fencing:	Yes No 👱	May require repair: Yes* No y
Observed Damage:	prove-		
Potential Corrective / Actions:	York		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes Y No _	May require repair: Yes* No _>s
	Flow Channel Silting In:	Yes _ No 💆	May require repair: Yes* No ¥
	Head Cutting:	Yes No Y	May require repair: Yes* No 💆
Observed Damage:	NON-		
Potential Corrective Actions:	NUNSE		
	*		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Activity	2004 Budget	Revised Budget May 2004	Committed Cost this Period	Cumulative Committed Cost To Date 7-31-06	Forecasted Cost To Complete	Forecasted Final Cost	Remarks on Forecast to Complete
Phases I through III (Completed February 2006)				·			
Phase I - Drain Excess Liquid From Tailings	189,200	72,700		67,928	0	67,928	
Phases II, IIA + IIB - Evaporate Excess Uquid	6,000	8,000		242,882	0	242,882	
Phase III - Regrading & Final Cover System	337,000	342,050		504,742	0	504,742	
Field Indirect Costs	164,500	213,568		378,517	0	378,517	Includes Jan + Feb 2006 long term monitoring costs
Heda Costs	18,700	18,700	0	33,324	0	33,324	
Subtotal Phases I through III	715,400	655,018	0	1,227,393	0	1,227,393	
							·
Long Term Monitoring (through FY 2010)	***************************************						
Site Inspections			177	570			
Settlement Monitoring			.0	2,025	8,100	10,125	Annual Adams and a second and additional and a second and a
Consultant Support:					10.100	I	
Annual Geotechnical Engineer Inspections			0	2,495			Includes settlement monitoring data analysis
Vegetation Monitoring Site Conditions Review - MEI			0.101	0 404	20,000	20,000	Allowance for surveys in FY 2007, 2009 and 2010
			3,161	3,161			
Site Conditions Review - SVL Analytical			891	891			
Maintenance:			· · · · · · · · · · · · · · · · · · ·				
Erosion Repair Allowance			ļ	0	7,500	7,500	
Overseeding Allowance				l - ö			
Ovoiceding Allowation				<u>`</u>	3,320	3,020	
Hecla Project Management Costs;				t			
Labor			500	2,066	8,109	10,175	
Travel expenses			600		<u> </u>		
		***************************************	t	1	l	† <u>''</u>	
Subtotal Long Term Monitoring	. 0	O	5,329	11,808	77,156	84,912	
3			1	1	1	1	
······				1	t	1	<u> </u>
			1		l		
Total Pond 2 Final Closure	715,400	655,018	5,329	1,239,201	77,156	1,312,305	

Fw: Apex - July 2006 Ericr Johnson to: Amy Swanson

08/17/2006 07:30 AM

Forwarded by Ericr Johnson/ENF/R8/USEPA/US on 08/17/2006 07:30 AM -



Paul Glader <pglader@hecla-mining.com</pre>

To Ericr Johnson/ENF/R8/USEPA/US@EPA

CC

08/16/2006 12:17 PM

Subject Apex - July 2006



Apex.Pond 2 - progress rpt 27 complete, july 2006.pdf



August 16, 2006

Sent via email

Eric Johnson U.S. Environmental Protection Agency Region 8, 8ENF-T 999 18th Street, Suite 300 Denver, Colorado 80202-2466

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John Krause Bureau of Indian Affairs Phoenix Area Office U.S. Department of Interior P.O. Box 10 Phoenix, AZ 85001

Kelly Youngbear BIA Southern Palute Agency P.O. Box 720 St. George, UT 84771

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Eric Johnson (USEPA, Region VIII) (w/o attachments)



MEMORANDUM TO:

Apex File

COPIES TO:

distribution

FROM:

Paul Glader

SUBJECT:

Progress Report No. 27 for period ending July 31, 2006;

Pond 2 Final Closure - Apex Site, Washington County, Utah

Summary

The seventh visual inspection, per the long term monitoring plan, was conducted on August 3rd. No unusual conditions were noted, some salt formation was noted near the toe of the rock-armored out slopes. Further investigation identified the source as recent rainfall contacting the natural mineralization contained in the site-sourced construction material. Some minor erosion maintenance will be scheduled for late summer.

The settlement monuments were surveyed on June 6th and July 10th - no appreciable settlement has been noted. Settlement analysis will now take place on a quarterly basis.

Major Issues

- 1. During the period of post closure long term monitoring, the Hecla representative will be Paul Glader, Manager of Environmental Services. Paul's contact information includes: Work Telephone 208.769.4112, email address pglader@hecla-mining.com.
- 2. Surface Monitor Results To Date Since monitoring of the top surface began (Jan 4, 2006), there has been no appreciable movement in the surface monuments at the Apex site. Significant decreases in elevation could have meant large volume changes within the impoundment due to either (1) consolidation of enclosed materials, or (2) loss of liquid through leaks in the impoundment.

There are ten monuments installed on the top surface. As shown, between installation of the monuments and the July 10, 2006 monitoring period any movements have been slight and can be attributed to surveying accuracy limitations. Surveying of the monuments will now take place on a quarterly basis, starting with September.

Monument	Total Elevation Change Since 1/4/06 (feet)
1	-0.01
2	0.02
. 3	0.00
4	0.05
5	0.04
6	0.02
7	-0.06
8	0.00
9	-0.01
10	0.02

Work Planned for Next Period

- 1. Visual inspection of site.
- 2. Settlement monument survey will take place quarterly basis September.

Sampling and Analysis in Period

Field Tests, Inspections & QA/QC

1. The seventh site inspection was done on August 3rd; a copy of the inspection report is included in the Supplemental Attachments section.

Cost and Schedule

Committed costs in July 2006 were approximately \$5,329. Total project to date committed is approximately \$1,239,000.

The cost report for July is attached. Current status of the deliverables listed in the RCRA 7003 order is as follows:

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	63 64	Paragraph 57 15 days after effective date of order 63 45 days after receipt of filing of order 64 28 th day after close of month 66 30 days after completion of all closure plan	

The update of the schedule milestones is on the following table:

Milestone	Target	Actual	Remarks
Issue bid package – Phase I (Sump Drains)	6/14/04	6/15/04	Portion of RFP materials issued at pre- bid on 6/14/04; remainder sent via courier
Issue RFP package – Phase III	6/24/04	6/24/04	
Award contract for Phase I	6/24/04	6/29/04	Date contract was shipped to Hughes
Pre-bld meeting - Phase III	7/19/04	7/19/04	
Start Phase I (Sump Drains) construction	7/12/04	7/19/04	_
Start Phase II (Evaporation)	7/19/04	7/29/04	
Receive bids for Phase III	8/2/04	8/2/04	,
Re-bld Phase III contract package	April 2005	4/27/05	Date bid package was sent to Hughes
Start Phase III construction	End of August 2005	8/29/05	Start of contractor mobilization
Complete Phase III construction	Dec 23rd 2005	12/23/05	Completion of contract scope of work
Issue Construction Completion Report	Week of 3/13/2006	3/13/06	

Supplemental Attachments

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- 2. July Cost Report

Annual Site Inspection Summary Sheet - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 1 of 4 - Summary

Date: 8-	3-06		To a superior control of the s		
Inspector:	12	uman			
Cover System Component	Potential Problem		Allowable Limits	Limits Potentially Exceeded	
Site Perimeter	Erosion or	Fencing Issues	NA	NA	
	Subsidenc	ce	Minor: ponding < 1" some gullying / erosion	Yes <u>M</u> • No	
			Significant: see Table 2	Yes _* No 🍇	
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes* No	
	Gullying	on top	depth > 1"	Vac * No *	
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes * No X	
rock)		w/in normal flow channel in diversion channel	no gullying allowed	Yes* No _¥	
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes* No _	
*		in diversion channel at any other location	NA	NA	
	Erosion Protection Stability		rock subsiding or missing	Yes * No 🍾	
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No 🕆	
	Diversion	Channel	rock in place, channel not moving, fence stable	Yes ⊀ * No	
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes ≮ * No	
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes * No ¥	

^{*} Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan Form 2 of 4 - Site Perimeter

		Inspection Date:_	8-3-04	THE STATE OF THE S
		Inspector:	Truma	
			Visible Outlying Are	as
Observed Condition:	No	Change		
Observed Damage:	NOH-			May require repair: Yes* No ❤
	**************************************			way require repair. res NO X
		Property B	oundary Fence and Gat	e (walk fence line)
Observed Condition:	Ery	thing Lord	Finis	
Observed Damage:	1	Mone		
Potential Corrective Actions:	NA	√ °		
				May require repair: Yes* No ★
			ient Areas (areas that dr	ain onto property)
Observed Condition:	Hu	Charge from	- lost month	
Observed Damage:	Sa-	Mina	erosin	
				May require repair: Yes* No _x

^{*} Mark all areas of concern or requiring repairs on attached site map.

Annual Site inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 3 of 4 - Impoundment

	Inspection Date:	3-04 Truman	
		Outslopes	
Observed Performance:	Rock Cover Subsidence:	Yes No 🕦	May require repair: Yes* No
	Excessive Slope Movement (fai	ilure): Yes No 🛰	May require repair: Yes* No
	Gully Development: (miNU	Yes X No _	May require repair: Yes* No
	Observable Leachate (colored)	Yes No Salt	May require repair: Yes X * No
	Excessive Siltation (at slope to	e): Yes No 📐	May require repair: Yes* No
Observed S Damage:	Some Salt war	observed of Sev	teral Site around the
Actions'	Dong Gibbs ousite prear to have creat shevalization certain	ed areas of salts -	Ponday 814. Recat vains fornations - from natival moterials. 76-8/800
		Top (top surface soils)	
Observed Performance:	Cracking (>1" width):	Yes _ No <u>x</u>	May require repair: Yes* No*
	Settlement / Evidence of Pondi	ng: Yes No 🔀	May require repair: Yes <u>*</u> No <u>★</u>
	Erosion / Gullying:	Yes No xo	May require repair: Yes* No _x
Observed Damage:	15000		
Potential Corrective Actions:	Nome		
		Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes	<u>×</u> No	May require repair: Yes* No ⊻
	Rock Subsiding: Yes	No x	May require repair: Yes* No ×
	Missing Rock: Yes	No x	May require repair: Yes* No ×
Observed Damage:	اسهد		
Potential Corrective Actions:	John		

" Mark all areas of concern of requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan Form 4 of 4 - Diversion Channel and Swales

Date: Inspector:	8-3-06 1 panner		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes 🙍 No	May require repair: Yes* No <u>✓</u>
,	Normal Flow Channel in place:	Yes <u>v</u> No	May require repair: Yes* No _X
	Encroaching on Site Fencing:	Yes No <u> </u>	May require repair: Yes* No y
Observed Damage:	Henra		
Potential Corrective / Actions:	York		
		Diversion Swales	
Observed Performance:			
ı	Erosion Protection in place:	Yes 🛂 No	May require repair: Yes* No _>
	Erosion Protection in place: Flow Channel Silting In:	Yes Y No Y	May require repair: Yes* No _> May require repair: Yes* No _ ★
		,	
Observed Damage:	Flow Channel Silting In:	Yes No 🗸	May require repair: Yes* No _X
	Flow Channel Silting In: Head Cutting:	Yes No 🗸	May require repair: Yes* No _X

^{*} Mark all areas of concern or requiring repairs on attached site map.

Activity	2004 Budget	Revised Budget May 2004	Committed Cost this Period	Cumulative Committed Cost To Date 7-31-06	Forecasted Cost To Complete	Forecasted Final Cost	Remarks on Forecast to Complete
Phases I through III (Completed February 2006)							
Phase I - Drain Excess Liquid From Tailings	189,200	72,700		67,928	0	67,928	
Phases II, IIA + IIB - Evaporate Excess Liquid	6,000	8,000		242,882	0	242,882	
						7	
Phase III - Regrading & Final Cover System	337,000	342,050		504,742	. 0	504,742	
				-			
Field Indirect Costs	164,500	213,568		378,517	0	378,517	Includes Jan + Feb 2006 long term monitoring costs
						,	
Hecla Costs	18,700	18,700	0	33,324	0	33,324	
						·	
Subtotal Phases I through III	715,400	655,018	0	1,227,393	0	1,227,393	
Long Term Monitoring (through FY 2010)							
Site Inspections			177	570			
Settlement Monitoring			0	2,025	8,100	10,125	
Consultant Support:							
Annual Geotechnical Engineer Inspections			0				Includes settlement monitoring data analysis
Vegetation Monitoring				0	20,000	20,000	Allowance for surveys in FY 2007, 2009 and 2010
Site Conditions Review - MEI			3,161	3,161			
Site Conditions Review - SVL Analytical			891	891		 	
Africa				.		ļ	
Maintenance: Erosion Repair Allowance				ļ	7.500	7.500	
Outproofing Allegance				0			
Overseeding Allowance			ļ	0	9,920	9,920	
Hecla Project Management Costs:			 	 		 	
Labor			500	2,066	8,109	10,175	
Travel expenses			600				
				- 300	1,512	1,312	
Subtotal Long Term Monitoring	0	0	5,329	11,808	77,156	84,912	
The state of the s		<u> </u>	,-20	11,000	77,130		
					 		
Total Pond 2 Final Closure	715,400	655,018	5,329	1,239,201	77.156	1,312,305	